DERWENT-ACC-NO:

1993-373633

**DERWENT-WEEK:** 

200132

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TITLE:

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Biomedical implant material with appropriate viscosity

and supported firmly within bone defect - comprises crosslinked gelatin supporting particles of calcium

phosphate type cpds., covered with film of

non-crosslinked gelatin

PATENT-ASSIGNEE: KYOCERA CORP[KYOC]

PRIORITY-DATA: 1992JP-0077239 (March 31, 1992)

## **PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGU	AGE	<b>PAGES</b>	MAIN-IPC
JP 05277174 A	October 26, 1993	N/A	800	A61L	. 027/00
JP 3170339 B2	May 28, 2001	N/A	008	A61L	027/00

### APPLICATION-DATA:

PUB-NO	APPL-DESCRIPT	TOR APPL-NO	APPL-DATE
JP 05277174A	N/A	1992JP-0077239	March 31, 1992
JP 3170339B2	N/A	1992JP-0077239	March 31, 1992
JP 3170339B2	Previous Publ.	JP 5277174	N/A

INT-CL (IPC): A61L027/00

ABSTRACTED-PUB-NO: JP 05277174A

#### **BASIC-ABSTRACT:**

A new biomedical implanting material consists of a composite body consisting of crosslinked gelatin supporting particles of a calcium phosphate type cpd(s). and a film of uncrosslinked gelatin formed on the surface of the composite body.

The material pref. has an average grain size of 200-1,000 microns to facilitate filling. The supported particles pref. have an average grain size of up to 100

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microns. The film is pref. 5-20 microns, on average. The gelatin is typically obtd. by heat-treating commercial gelatin or collagen at a temp. of up to 80 deg.C for several hr. The phosphate is e.g. hydroxyapatite or tricalcium phosphate.

USE/ADVANTAGE - The film is water-soluble and produces appropriate viscosity when kneaded with a liq., such as a physiological salt soln. Being insoluble in water, the body is held firmly within a bone defect. It promotes smooth regeneration and growth of fresh bones. The material is useful as a bone filler in buccal and orthopaedic surgery.

CHOSEN-DRAWING: Dwg.0/1

TITLE-TERMS: BIOMEDICAL IMPLANT MATERIAL APPROPRIATE VISCOSITY SUPPORT FIRM

BONE DEFECT COMPRISE CROSSLINK GELATIN SUPPORT PARTICLE CALCIUM

PHOSPHATE TYPE COMPOUND COVER FILM NON CROSSLINK GELATIN

DERWENT-CLASS: A96 D22 P34

CPI-CODES: A03-C01; A12-V02; D09-C01D;

#### **ENHANCED-POLYMER-INDEXING:**

Polymer Index [1.1]

017; R24033 G3714 P0599 D01 F70; M9999 M2073

Polymer Index [1.2]

017; ND01; K9574 K9483; K9687 K9676; Q9999 Q7987\*R; Q9999 Q8048 Q7987; B9999 B4488 B4466; Q9999 Q7523; B9999 B5209 B5185 B4740 Polymer Index [1.3]

017; B9999 B5447 B5414 B5403 B5276; B9999 B3463 B3452 B3372; Q9999 Q6791

Polymer Index [2.1]

017; R24033 G3714 P0599 D01 F70

Polymer Index [2.2]

017; ND01; K9574 K9483; K9687 K9676; Q9999 Q7987\*R; Q9999 Q8048 Q7987; B9999 B4488 B4466; Q9999 Q7523; B9999 B5209 B5185 B4740 Polymer Index [2.3]

017 ; K9712 K9676 ; B9999 B3521 B3510 B3372 ; B9999 B3587 B3554 ; B9999 B5027 B5016 B4977 B4740 ; Q9999 Q7114\*R ; B9999 B5243\*R B4740

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